



Novel Albumins\_ST25.txt  
SEQUENCE LISTING

<110> Berezenko, Stephen  
Sadler, Peter J.  
Stewart, Alan J.  
Blindauer, Claudia  
Bunyan, Kerry E.

<120> NOVEL ALBUMINS

<130> 63572-5001-US

<140> US 10/523,312

<141> 2005-01-26

<150> GB217347.4

<151> 2002-07-26

<160> 12

<170> PatentIn version 3.4

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<213> Artificial Sequence

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<223> Human hepatocytes cell lines were treated with rHA or His67ALa mutant albumin to study

their effects on the human hepatocyte cell culture. The cell line used was WRL-68.

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Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys  
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Ser Leu Xaa Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu  
 65 70 75 80

Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro  
 85 90 95

Glu Arg Xaa Xaa Cys Phe Xaa Gln His Lys Asp Asp Asn Pro Asn Leu  
 100 105 110

Pro Arg Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His  
 115 120 125

Asp Asn Glu Glu Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Ile Ala Arg  
 130 135 140

Arg Xaa Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Lys Arg  
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Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser  
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Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Glu  
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260 265 270

Ser Lys Leu Lys Glu Cys Cys Glu Lys Pro Leu Leu Glu Lys Ser Xaa  
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Cys Ile Ala Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser  
290 295 300

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Glu Ala Lys Asp Val Phe Leu Gly Met Phe Leu Tyr Glu Tyr Ala Arg  
325 330 335

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Tyr Glu Thr Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu  
355 360 365

Cys Tyr Ala Lys Val Phe Asp Glu Phe Lys Pro Leu Val Glu Glu Pro  
370 375 380

Gln Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe Glu Gln Leu Gly Glu  
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Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg Tyr Thr Lys Lys Val Pro  
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Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys  
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Val Gly Ser Lys Cys Cys Lys His Pro Glu Ala Lys Arg Met Pro Cys  
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Ala Glu Asp Tyr Leu Ser Val Val Leu Asn Gln Leu Cys Val Leu His  
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Glu Lys Thr Pro Val Ser Asp Arg Val Thr Lys Cys Cys Thr Glu Ser  
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Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu Glu Val Asp Glu Thr  
485 490 495

Tyr Val Pro Lys Glu Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp  
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Ile Cys Thr Leu Ser Glu Lys Glu Arg Gln Ile Lys Lys Gln Thr Ala  
515 520 525

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Lys Ala Val Met Asp Asp Phe Ala Ala Phe Val Glu Lys Cys Cys Lys  
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His Arg Phe Lys Asp Leu Gly Glu Glu Asn Phe Lys Ala Leu Val Leu  
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Lys Leu Val Asn Glu Val Thr Glu Phe Ala Lys Thr Cys Val Ala Asp  
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Glu Ser Ala Glu Asn Cys Asp Lys Ser Leu His Thr Leu Phe Gly Asp  
85 90 95

Lys Leu Cys Thr Val Ala Thr Leu Arg Glu Thr Tyr Gly Glu Met Ala  
100 105 110

Asp Cys Cys Ala Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Gln  
115 120 125

His Lys Asp Asp Asn Pro Asn Leu Pro Arg Leu Val Arg Pro Glu Val  
130 135 140

Asp Val Met Cys Thr Ala Phe His Asp Asn Glu Glu Thr Phe Leu Lys  
145 150 155 160

Lys Tyr Leu Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro  
165 170 175

Glu Leu Leu Phe Phe Ala Lys Arg Tyr Lys Ala Ala Phe Thr Glu Cys  
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Cys Gln Ala Ala Asp Lys Ala Ala Cys Leu Leu Pro Lys Leu Asp Glu  
195 200 205

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210 215 220

Ala Ser Leu Gln Lys Phe Gly Glu Arg Ala Phe Lys Ala Trp Ala Val  
225 230 235 240

Ala Arg Leu Ser Gln Arg Phe Pro Lys Ala Glu Phe Ala Glu Val Ser  
245 250 255

Lys Leu Val Thr Asp Leu Thr Lys Val His Thr Glu Cys Cys His Gly  
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Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile  
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Cys Glu Asn Gln Asp Ser Ile Ser Ser Lys Leu Lys Glu Cys Cys Glu  
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 Glu Met Pro Ala Asp Leu Pro Ser Leu Ala Ala Asp Phe Val Glu Ser  
 325 330 335  
 Lys Asp Val Cys Lys Asn Tyr Ala Glu Ala Lys Asp Val Phe Leu Gly  
 340 345 350  
 Met Phe Leu Tyr Glu Tyr Ala Arg Arg His Pro Asp Tyr Ser Val Val  
 355 360 365  
 Leu Leu Leu Arg Leu Ala Lys Thr Tyr Glu Thr Thr Leu Glu Lys Cys  
 370 375 380  
 Cys Ala Ala Ala Asp Pro His Glu Cys Tyr Ala Lys Val Phe Asp Glu  
 385 390 395 400  
 Phe Lys Pro Leu Val Glu Glu Pro Gln Asn Leu Ile Lys Gln Asn Cys  
 405 410 415  
 Glu Leu Phe Glu Gln Leu Gly Glu Tyr Lys Phe Gln Asn Ala Leu Leu  
 420 425 430  
 Val Arg Tyr Thr Lys Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val  
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 Glu Val Ser Arg Asn Leu Gly Lys Val Gly Ser Lys Cys Cys Lys His  
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 485 490 495  
 Val Thr Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe  
 500 505 510  
 Ser Ala Leu Glu Val Asp Glu Thr Tyr Val Pro Lys Glu Phe Asn Ala  
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 Glu Thr Phe Thr Phe His Ala Asp Ile Cys Thr Leu Ser Glu Lys Glu  
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Arg Gln Ile Lys Lys Gln Thr Ala Leu Val Glu Leu Val Lys His Lys  
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Gln Cys Pro Phe Glu Glu His Val Lys Leu Val Asn Glu Val Thr Glu  
50 55 60

Phe Ala Lys Thr Cys Val Ala Asp Glu Ser Ala Glu Asn Cys Asp Lys  
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Ser Leu His Thr Leu Phe Gly Asp Lys Leu Cys Thr Val Ala Thr Leu  
85 90 95

Arg Glu Thr Tyr Gly Glu Met Ala Asp Cys Cys Ala Lys Gln Glu Pro  
100 105 110

Glu Arg Asn Glu Cys Phe Leu Gln His Lys Asp Asp Asn Pro Asn Leu  
115 120 125

Pro Pro Leu Val Arg Pro Glu Val Asp Val Met Cys Thr Ala Phe His  
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Asp Asn Glu Ala Thr Phe Leu Lys Lys Tyr Leu Tyr Glu Val Ala Arg  
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Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu Phe Phe Ala Ala Arg  
165 170 175

Tyr Lys Ala Ala Phe Ala Glu Cys Cys Gln Ala Ala Asp Lys Ala Ala  
180 185 190

Cys Leu Leu Pro Lys Leu Asp Glu Leu Arg Asp Glu Gly Lys Ala Ser  
195 200 205

Ser Ala Lys Gln Arg Leu Lys Cys Ala Ser Leu Gln Lys Phe Gly Asp  
210 215 220

Arg Ala Phe Lys Ala Trp Ala Val Ala Arg Leu Ser Gln Lys Phe Pro  
225 230 235 240

Lys Ala Glu Phe Ala Glu Val Ser Lys Leu Val Thr Asp Leu Thr Lys  
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Val His Thr Glu Cys Cys His Gly Asp Leu Leu Glu Cys Ala Asp Asp  
260 265 270

Arg Ala Asp Leu Ala Lys Tyr Met Cys Glu Asn Gln Asp Ser Ile Ser  
275 280 285

Ser Lys Leu Lys Glu Cys Cys Asp Lys Pro Leu Leu Glu Lys Ser His  
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Cys Leu Ala Glu Val Glu Asn Asp Glu Met Pro Ala Asp Leu Pro Ser  
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Arg His Pro Asp Tyr Ser Val Met Leu Leu Leu Arg Leu Ala Lys Ala  
355 360 365

Tyr Glu Ala Thr Leu Glu Lys Cys Cys Ala Ala Ala Asp Pro His Glu  
370 375 380

Cys Tyr Ala Lys Val Phe Asp Glu Phe Gln Pro Leu Val Glu Glu Pro  
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385 390 400

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405 410 415

Tyr Lys Phe Gln Asn Ala Leu Leu Val Arg Tyr Thr Lys Lys Val Pro  
420 425 430

Gln Val Ser Thr Pro Thr Leu Val Glu Val Ser Arg Asn Leu Gly Lys  
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Val Gly Ala Lys Cys Cys Lys Leu Pro Glu Ala Lys Arg Met Pro Cys  
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Ala Glu Asp Tyr Leu Ser Val Val Leu Asn Arg Leu Cys Val Leu His  
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Glu Lys Thr Pro Val Ser Glu Lys Val Thr Lys Cys Cys Thr Glu Ser  
485 490 495

Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu Glu Leu Asp Glu Ala  
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Tyr Val Pro Lys Ala Phe Asn Ala Glu Thr Phe Thr Phe His Ala Asp  
515 520 525

Met Cys Thr Leu Ser Glu Lys Glu Lys Gln Val Lys Lys Gln Thr Ala  
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Pro	Asp	Arg	Asn	Glu	Cys	Phe
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Arg	Arg	His	Pro	Tyr	Phe	Tyr
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Leu	Arg	Glu	Lys	Val	Leu	Leu
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Asp	Arg	Ala	Phe	Lys	Ala	Trp
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Pro	Lys	Ala	Asp	Phe	Ala	Glu
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Ile	Ser					
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Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Met  
275 280 285

Cys Glu Asn Gln Asp Ser Ile Ser Thr Lys Leu Lys Glu Cys Cys Asp  
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Lys Pro Val Leu Glu Lys Ser Gln Cys Leu Ala Glu Val Glu Arg Asp  
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Lys Glu Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Val Phe Leu Gly  
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Thr Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Glu Tyr Ser Val Ser  
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Phe Lys Pro Leu Val Asp Glu Pro Gln Asn Leu Val Lys Thr Asn Cys  
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Glu Leu Phe Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Leu Leu  
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Val Arg Tyr Thr Lys Lys Ala Pro Gln Val Ser Thr Pro Thr Leu Val  
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Novel Albumins\_ST25.txt

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Pro Lys Ala Thr Asp Glu Gln Leu Lys Thr Val Met Gly Asp Phe Gly  
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Gln Ser Ala Ala Asn Cys Glu Lys Ser Leu His Glu Leu Leu Gly Asp  
85 90 95

Lys Leu Cys Thr Val Ala Ser Leu Arg Asp Lys Tyr Gly Glu Met Ala  
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Glu Leu Leu Tyr Tyr Ala Glu Glu Tyr Lys Gly Val Phe Thr Glu Cys  
180 185 190

Cys Glu Ala Ala Asp Lys Ala Ala Cys Leu Thr Pro Lys Val Asp Ala  
195 200 205

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210 215 220

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Ala Arg Leu Ser Gln Lys Phe Pro Lys Ala Glu Phe Ala Glu Ile Ser  
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Lys Leu Val Thr Asp Leu Ala Lys Ile His Lys Glu Cys Cys His Gly  
260 265 270

Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile  
275 280 285

Cys Glu Asn Gln Asp Ser Ile Ser Thr Lys Leu Lys Glu Cys Cys Gly  
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Lys Glu Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Val Phe Leu Gly  
340 345 350

Thr Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Glu Tyr Ser Val Ser  
355 360 365

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370 375 380

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Cys Ala Thr Asp Asp Pro Pro Ala Cys Tyr Ala His Val Phe Asp Glu  
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 Phe Lys Pro Leu Val Glu Glu Pro His Asn Leu Val Lys Thr Asn Cys  
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 Glu Leu Phe Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Leu Leu  
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 Val Arg Tyr Thr Lys Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val  
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 Glu Val Ser Arg Ser Leu Gly Lys Val Gly Ser Lys Cys Cys Thr His  
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 Pro Glu Ala Glu Arg Leu Ser Cys Ala Glu Asp Tyr Leu Ser Val Val  
 465 470 475 480  
 Leu Asn Arg Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Arg  
 485 490 495  
 Val Thr Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe  
 500 505 510  
 Ser Ala Leu Gln Val Asp Glu Thr Tyr Val Pro Lys Glu Phe Ser Ala  
 515 520 525  
 Glu Thr Phe Thr Phe His Ala Asp Leu Cys Thr Leu Pro Glu Ala Glu  
 530 535 540  
 Lys Gln Ile Lys Lys Gln Ser Ala Leu Val Glu Leu Leu Lys His Lys  
 545 550 555 560  
 Pro Lys Ala Thr Glu Glu Gln Leu Lys Thr Val Met Gly Asp Phe Gly  
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35 40 45

Ile Ala Phe Ser Gln Tyr Leu Gln Gln Cys Pro Phe Asp Glu His Val  
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Tyr Leu Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro Glu  
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Gln Ala Glu Asp Lys Gly Ala Cys Leu Leu Pro Lys Ile Glu Thr Met  
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Arg Glu Lys Val Leu Ala Ser Ser Ala Arg Gln Arg Leu Arg Cys Ala  
210 215 220

Ser Ile Gln Lys Phe Gly Glu Arg Ala Leu Lys Ala Trp Ser Val Ala  
225 230 235 240

Arg Leu Ser Gln Lys Phe Pro Lys Ala Glu Phe Val Glu Val Thr Lys  
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245

250

255

Leu Val Thr Asp Leu Thr Lys Val His Lys Glu Cys Cys His Gly Asp  
260 265 270

Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys  
275 280 285

Asp Asn Gln Asp Thr Ile Ser Ser Lys Leu Lys Glu Cys Cys Asp Lys  
290 295 300

Pro Leu Leu Glu Lys Ser His Cys Ile Ala Glu Val Glu Lys Asp Ala  
305 310 315 320

Ile Pro Glu Asn Leu Pro Pro Leu Thr Ala Asp Phe Ala Glu Asp Lys  
325 330 335

Asp Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Ala Phe Leu Gly Ser  
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Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Glu Tyr Ala Val Ser Val  
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Leu Leu Arg Leu Ala Lys Glu Tyr Glu Ala Thr Leu Glu Glu Cys Cys  
370 375 380

Ala Lys Asp Asp Pro His Ala Cys Tyr Ser Thr Val Phe Asp Lys Leu  
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Lys His Leu Val Asp Glu Pro Gln Asn Leu Ile Lys Gln Asn Cys Asp  
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Gln Phe Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Leu Ile Val  
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Arg Tyr Thr Arg Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val Glu  
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Val Ser Arg Ser Leu Gly Lys Val Gly Thr Arg Cys Cys Thr Lys Pro  
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Glu Ser Glu Arg Met Pro Cys Thr Glu Asp Tyr Leu Ser Leu Ile Leu  
465 470 475 480

Asn Arg Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Lys Val  
485 490 495



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Thr Lys Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe Ser  
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515 520 525

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Gln Ile Lys Lys Gln Thr Ala Leu Val Glu Leu Leu Lys His Lys Pro  
545 550 555 560

Lys Ala Thr Glu Glu Gln Leu Lys Thr Val Met Glu Asn Phe Val Ala  
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His Arg Phe Asn Asp Leu Gly Glu Glu Asn Phe Gln Gly Leu Val Leu  
35 40 45

Ile Ala Phe Ser Gln Tyr Leu Gln Gln Cys Pro Phe Asp Glu His Val  
50 55 60

Lys Leu Val Lys Glu Leu Thr Glu Phe Ala Lys Thr Cys Val Ala Asp  
65 70 75 80

Glu Ser His Ala Gly Cys Asp Lys Ser Leu His Thr Leu Phe Gly Asp  
85 90 95

Glu Leu Cys Lys Val Ala Thr Leu Arg Glu Thr Tyr Gly Asp Met Ala  
100 105 110

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Asp Cys Cys Glu Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Asn  
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 130 135 140  
 Thr Leu Cys Ala Glu Phe Lys Ala Asp Glu Lys Lys Phe Trp Gly Lys  
 145 150 155 160  
 Tyr Leu Tyr Glu Val Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro Glu  
 165 170 175  
 Leu Leu Tyr Tyr Ala Asn Lys Tyr Asn Gly Val Phe Gln Glu Cys Cys  
 180 185 190  
 Gln Ala Glu Asp Lys Gly Ala Cys Leu Leu Pro Lys Ile Asp Ala Met  
 195 200 205  
 Arg Glu Lys Val Leu Ala Ser Ser Ala Arg Gln Arg Leu Arg Cys Ala  
 210 215 220  
 Ser Ile Gln Lys Phe Gly Glu Arg Ala Leu Lys Ala Trp Ser Val Ala  
 225 230 235 240  
 Arg Leu Ser Gln Lys Phe Pro Lys Ala Asp Phe Thr Asp Val Thr Lys  
 245 250 255  
 Ile Val Thr Asp Leu Thr Lys Val His Lys Glu Cys Cys His Gly Asp  
 260 265 270  
 Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys  
 275 280 285  
 Asp His Gln Asp Ala Leu Ser Ser Lys Leu Lys Glu Cys Cys Asp Lys  
 290 295 300  
 Pro Val Leu Glu Lys Ser His Cys Ile Ala Glu Val Asp Lys Asp Ala  
 305 310 315 320  
 Val Pro Glu Asn Leu Pro Pro Leu Thr Ala Asp Phe Ala Glu Asp Lys  
 325 330 335  
 Glu Val Cys Lys Asn Tyr Gln Glu Ala Lys Asp Val Phe Leu Gly Ser  
 340 345 350  
 Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Glu Tyr Ala Val Ser Val  
 355 360 365

Novel Albumins\_ST25.txt

Leu 370 Leu Arg Leu Ala Lys 375 Glu Tyr Glu Ala Thr Leu 380 Glu Asp Cys Cys  
 Ala 385 Lys Glu Asp Pro His 390 Ala Cys Tyr Ala Thr 395 Val Phe Asp Lys Leu 400  
 Lys His Leu Val 405 Asp Glu Pro Gln Asn Leu 410 Ile Lys Lys Asn Cys 415 Glu  
 Leu Phe Glu Lys 420 His Gly Glu Tyr Gly 425 Phe Gln Asn Ala Leu 430 Ile Val  
 Arg Tyr Thr 435 Arg Lys Ala Pro Gln 440 Val Ser Thr Pro Thr 445 Leu Val Glu  
 Ile 450 Ser Arg Ser Leu Gly Lys 455 Val Gly Thr Lys Cys 460 Cys Ala Lys Pro  
 Glu 465 Ser Glu Arg Met Pro 470 Cys Thr Glu Asp Tyr 475 Leu Ser Leu Ile Leu 480  
 Asn Arg Leu Cys Val 485 Leu His Glu Lys Thr 490 Pro Val Ser Glu Lys Val 495  
 Thr Lys Cys Cys 500 Thr Glu Ser Leu Val 505 Asn Arg Arg Pro Cys 510 Phe Ser  
 Asp Leu Thr 515 Leu Asp Glu Thr Tyr 520 Val Pro Lys Pro Phe 525 Asp Glu Lys  
 Phe 530 Phe Thr Phe His Ala Asp 535 Ile Cys Thr Leu Pro 540 Asp Thr Glu Lys  
 Gln 545 Ile Lys Lys Gln Thr 550 Ala Leu Val Glu Leu 555 Leu Lys His Lys Pro 560  
 Lys Ala Thr Asp Glu 565 Gln Leu Lys Thr Val 570 Met Glu Asn Phe Val 575 Ala  
 Phe Val Asp Lys 580 Cys Cys Ala Ala Asp 585 Asp Lys Glu Gly Cys 590 Phe Val  
 Leu Glu Gly 595 Pro Lys Leu Val Ala 600 Ser Thr Gln Ala Ala 605 Leu Ala

<210> 8  
 <211> 605

Novel Albumins\_ST25.txt

<212> PRT

<213> Sus scrofa

<400> 8

Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala Tyr Ser  
1 5 10 15

Arg Gly Val Phe Arg Arg Asp Thr Tyr Lys Ser Glu Ile Ala His Arg  
20 25 30

Phe Lys Asp Leu Gly Glu Gln Tyr Phe Lys Gly Leu Val Leu Ile Ala  
35 40 45

Phe Ser Gln His Leu Gln Gln Cys Pro Tyr Glu Glu His Val Lys Leu  
50 55 60

Val Arg Glu Val Thr Glu Phe Ala Lys Thr Cys Val Ala Asp Glu Ser  
65 70 75 80

Ala Glu Asn Cys Asp Lys Ser Ile His Thr Leu Phe Gly Asp Lys Leu  
85 90 95

Cys Ala Ile Pro Ser Leu Arg Glu His Tyr Gly Asp Leu Ala Asp Cys  
100 105 110

Cys Glu Lys Glu Glu Pro Glu Arg Asn Glu Cys Phe Leu Gln His Lys  
115 120 125

Asn Asp Asn Pro Asp Ile Pro Lys Leu Lys Pro Asp Pro Val Ala Leu  
130 135 140

Cys Ala Asp Phe Gln Glu Asp Glu Gln Lys Phe Trp Gly Lys Tyr Leu  
145 150 155 160

Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro Glu Leu Leu  
165 170 175

Tyr Tyr Ala Ile Ile Tyr Lys Asp Val Phe Ser Glu Cys Cys Gln Ala  
180 185 190

Ala Asp Lys Ala Ala Cys Leu Leu Pro Lys Ile Glu His Leu Arg Glu  
195 200 205

Lys Val Leu Thr Ser Ala Ala Lys Gln Arg Leu Lys Cys Ala Ser Ile  
210 215 220

Gln Lys Phe Gly Glu Arg Ala Phe Lys Ala Trp Ser Leu Ala Arg Leu  
225 230 235 240

Novel Albumins\_ST25.txt

Ser Gln Arg Phe Pro Lys Ala Asp Phe Thr Glu Ile Ser Lys Ile Val  
245 250 255

Thr Asp Leu Ala Lys Val His Lys Glu Cys Cys His Gly Asp Leu Leu  
260 265 270

Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Ile Cys Glu Asn  
275 280 285

Gln Asp Thr Ile Ser Thr Lys Leu Lys Glu Cys Cys Asp Lys Pro Leu  
290 295 300

Leu Glu Lys Ser His Cys Ile Ala Glu Ala Lys Arg Asp Glu Leu Pro  
305 310 315 320

Ala Asp Leu Asn Pro Leu Glu His Asp Phe Val Glu Asp Lys Glu Val  
325 330 335

Cys Lys Asn Tyr Lys Glu Ala Lys Asp Val Phe Leu Gly Thr Phe Leu  
340 345 350

Tyr Glu Tyr Ser Arg Arg His Pro Asp Tyr Ser Val Ser Leu Leu Leu  
355 360 365

Arg Ile Ala Lys Ile Tyr Glu Ala Thr Leu Glu Asp Cys Cys Ala Lys  
370 375 380

Glu Asp Pro Pro Ala Cys Tyr Ala Thr Val Phe Asp Lys Phe Gln Pro  
385 390 395 400

Leu Val Asp Glu Pro Lys Asn Leu Ile Lys Gln Asn Cys Glu Leu Phe  
405 410 415

Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Leu Ile Val Arg Tyr  
420 425 430

Thr Lys Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val Glu Val Ala  
435 440 445

Arg Lys Leu Gly Leu Val Gly Ser Arg Cys Cys Lys Arg Pro Glu Glu  
450 455 460

Glu Arg Leu Ser Cys Ala Glu Asp Tyr Leu Ser Leu Val Leu Asn Arg  
465 470 475 480

Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Lys Val Thr Lys

Novel Albumins\_ST25.txt

485

490

495

Cys Cys Thr Glu Ser Leu Val Asn Arg Arg Pro Cys Phe Ser Ala Leu  
500 505 510

Thr Pro Asp Glu Thr Tyr Lys Pro Lys Glu Phe Val Glu Gly Thr Phe  
515 520 525

Thr Phe His Ala Asp Leu Cys Thr Leu Pro Glu Asp Glu Lys Gln Ile  
530 535 540

Lys Lys Gln Thr Ala Leu Val Glu Leu Leu Lys His Lys Pro His Ala  
545 550 555 560

Thr Glu Glu Gln Leu Arg Thr Val Leu Gly Asn Phe Ala Ala Phe Val  
565 570 575

Gln Lys Cys Cys Ala Ala Pro Asp His Glu Ala Cys Phe Ala Val Glu  
580 585 590

Gly Pro Lys Phe Val Ile Glu Ile Arg Gly Ile Leu Ala  
595 600 605

<210> 9  
<211> 608  
<212> PRT  
<213> Oryctolagus cuniculus

<400> 9

Met Lys Trp Val Thr Phe Ile Ser Leu Leu Phe Leu Phe Ser Ser Ala  
1 5 10 15

Tyr Ser Arg Gly Val Phe Arg Glu Ser Ala His Lys Ser Glu Ile Ala  
20 25 30

His Arg Phe Asn Asp Val Gly Glu Glu His Phe Ile Gly Leu Val Leu  
35 40 45

Ile Thr Phe Ser Gln Tyr Leu Gln Lys Cys Pro Tyr Glu Glu His Ala  
50 55 60

Lys Leu Val Lys Glu Val Thr Asp Leu Ala Lys Ala Cys Val Ala Asp  
65 70 75 80

Glu Ser Ala Ala Asn Cys Asp Lys Ser Leu His Asp Ile Phe Gly Asp  
85 90 95

Lys Ile Cys Ala Leu Pro Ser Leu Arg Asp Thr Tyr Gly Asp Val Ala

Novel Albumins\_ST25.txt  
105 110

100

Asp Cys Cys Glu Lys Lys Glu Pro Glu Arg Asn Glu Cys Phe Leu His  
115 120 125

His Lys Asp Asp Lys Pro Asp Leu Pro Pro Phe Ala Arg Pro Glu Ala  
130 135 140

Asp Val Leu Cys Lys Ala Phe His Asp Asp Glu Lys Ala Phe Phe Gly  
145 150 155 160

His Tyr Leu Tyr Glu Val Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro  
165 170 175

Glu Leu Leu Tyr Tyr Ala Gln Lys Tyr Lys Ala Ile Leu Thr Glu Cys  
180 185 190

Cys Glu Ala Ala Asp Lys Gly Ala Cys Leu Thr Pro Lys Leu Asp Ala  
195 200 205

Leu Glu Gly Lys Ser Leu Ile Ser Ala Ala Gln Glu Arg Leu Arg Cys  
210 215 220

Ala Ser Ile Gln Lys Phe Gly Asp Arg Ala Tyr Lys Ala Trp Ala Leu  
225 230 235 240

Val Arg Leu Ser Gln Arg Phe Pro Lys Ala Asp Phe Thr Asp Ile Ser  
245 250 255

Lys Ile Val Thr Asp Leu Thr Lys Val His Lys Glu Cys Cys His Gly  
260 265 270

Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Asp Leu Ala Lys Tyr Met  
275 280 285

Cys Glu His Gln Glu Thr Ile Ser Ser His Leu Lys Glu Cys Cys Asp  
290 295 300

Lys Pro Ile Leu Glu Lys Ala His Cys Ile Tyr Gly Leu His Asn Asp  
305 310 315 320

Glu Asp Thr Ala Gly Leu Pro Ala Val Ala Glu Glu Phe Val Glu Asp  
325 330 335

Lys Asp Val Cys Lys Asn Tyr Glu Glu Ala Lys Asp Leu Phe Leu Gly  
340 345 350

Novel Albumins\_ST25.txt

Lys Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Asp Tyr Ser val val  
 355 360 365  
 Leu Leu Leu Arg Leu Gly Lys Ala Tyr Glu Ala Thr Leu Lys Lys Cys  
 370 375 380  
 Cys Ala Thr Asp Asp Pro His Ala Cys Tyr Ala Lys Val Leu Asp Glu  
 385 390 395 400  
 Phe Gln Pro Leu Val Asp Glu Pro Lys Asn Leu Val Lys Gln Asn Cys  
 405 410 415  
 Glu Leu Tyr Glu Gln Leu Gly Asp Tyr Asn Phe Gln Asn Ala Leu Leu  
 420 425 430  
 Val Arg Tyr Thr Lys Lys Val Pro Gln Val Ser Thr Pro Thr Leu Val  
 435 440 445  
 Glu Ile Ser Arg Ser Leu Gly Lys Val Gly Ser Lys Cys Cys Lys His  
 450 455 460  
 Pro Glu Ala Glu Arg Leu Pro Cys Val Glu Asp Tyr Leu Ser Val Val  
 465 470 475 480  
 Leu Asn Arg Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Lys  
 485 490 495  
 Val Thr Lys Cys Cys Ser Glu Ser Leu Ser Asn Arg Arg Pro Cys Phe  
 500 505 510  
 Ser Ala Leu Gly Pro Asp Glu Thr Tyr Val Pro Lys Glu Phe Asn Ala  
 515 520 525  
 Glu Thr Phe Thr Phe His Ala Asp Ile Cys Thr Leu Pro Glu Thr Glu  
 530 535 540  
 Arg Lys Ile Lys Lys Gln Thr Ala Leu Val Glu Leu Val Lys His Lys  
 545 550 555 560  
 Pro His Ala Thr Asn Asp Gln Leu Lys Thr Val Val Gly Glu Phe Thr  
 565 570 575  
 Ala Leu Leu Asp Lys Cys Cys Ser Ala Glu Asp Lys Glu Ala Cys Phe  
 580 585 590  
 Ala Val Glu Gly Pro Lys Leu Val Glu Ser Ser Lys Ala Thr Leu Gly  
 595 600 605



Novel Albumins\_ST25.txt

<210> 10  
 <211> 608  
 <212> PRT  
 <213> Rattus norvegicus

<400> 10

Met Lys Trp,Val Thr Phe Leu Leu Leu Leu Phe Ile Ser Gly Ser Ala  
 1 5 10 15

Phe Ser Arg Gly Val Phe Arg Arg Glu Ala His Lys Ser Glu Ile Ala  
 20 25 30

His Arg Phe Lys Asp Leu Gly Glu Gln His Phe Lys Gly Leu Val Leu  
 35 40 45

Ile Ala Phe Ser Gln Tyr Leu Gln Lys Cys Pro Tyr Glu Glu His Ile  
 50 55 60

Lys Leu Val Gln Glu Val Thr Asp Phe Ala Lys Thr Cys Val Ala Asp  
 65 70 75 80

Glu Asn Ala Glu Asn Cys Asp Lys Ser Ile His Thr Leu Phe Gly Asp  
 85 90 95

Lys Leu Cys Ala Ile Pro Lys Leu Arg Asp Asn Tyr Gly Glu Leu Ala  
 100 105 110

Asp Cys Cys Ala Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Gln  
 115 120 125

His Lys Asp Asp Asn Pro Asn Leu Pro Pro Phe Gln Arg Pro Glu Ala  
 130 135 140

Glu Ala Met Cys Thr Ser Phe Gln Glu Asn Pro Thr Ser Phe Leu Gly  
 145 150 155 160

His Tyr Leu His Glu Val Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro  
 165 170 175

Glu Leu Leu Tyr Tyr Ala Glu Lys Tyr Asn Glu Val Leu Thr Gln Cys  
 180 185 190

Cys Thr Glu Ser Asp Lys Ala Ala Cys Leu Thr Pro Lys Leu Asp Ala  
 195 200 205

Val Lys Glu Lys Ala Leu Val Ala Ala Val Arg Gln Arg Met Lys Cys  
 210 215 220

Novel Albumins\_ST25.txt

Ser Ser Met Gln Arg Phe Gly Glu Arg Ala Phe Lys Ala Asn Ala Val  
225 230 235 240

Ala Arg Met Ser Gln Arg Phe Pro Asn Ala Glu Phe Ala Glu Ile Thr  
245 250 255

Lys Leu Ala Thr Asp Val Thr Lys Ile Asn Lys Glu Cys Cys His Gly  
260 265 270

Asp Leu Leu Glu Cys Ala Asp Asp Arg Ala Glu Leu Ala Lys Tyr Met  
275 280 285

Cys Glu Asn Gln Ala Thr Ile Ser Ser Lys Leu Gln Ala Cys Cys Asp  
290 295 300

Lys Pro Val Leu Gln Lys Ser Gln Cys Leu Ala Glu Thr Glu His Asp  
305 310 315 320

Asn Ile Pro Ala Asp Leu Pro Ser Ile Ala Ala Asp Phe Val Glu Asp  
325 330 335

Lys Glu Val Cys Lys Asn Tyr Ala Glu Ala Lys Asp Val Phe Leu Gly  
340 345 350

Thr Phe Leu Tyr Glu Tyr Ser Arg Arg His Pro Asp Tyr Ser Val Ser  
355 360 365

Leu Leu Leu Arg Leu Ala Lys Lys Tyr Glu Ala Thr Leu Glu Lys Cys  
370 375 380

Cys Ala Glu Gly Asp Pro Pro Ala Cys Tyr Gly Thr Val Leu Ala Glu  
385 390 395 400

Phe Gln Pro Leu Val Glu Glu Pro Lys Asn Leu Val Lys Thr Asn Cys  
405 410 415

Glu Leu Tyr Glu Lys Leu Gly Glu Tyr Gly Phe Gln Asn Ala Val Leu  
420 425 430

Val Arg Tyr Thr Gln Lys Ala Pro Gln Val Ser Thr Pro Thr Leu Val  
435 440 445

Glu Ala Ala Arg Asn Leu Gly Arg Val Gly Thr Lys Cys Cys Thr Leu  
450 455 460

Pro Glu Ala Gln Arg Leu Pro Cys Val Glu Asp Tyr Leu Ser Ala Ile  
465 470 475 480

# Novel Albumins\_ST25.txt

Leu Asn Arg Leu Cys Val Leu His Glu Lys Thr Pro Val Ser Glu Lys  
485 490 495

Val Thr Lys Cys Cys Ser Gly Ser Leu Val Glu Arg Arg Pro Cys Phe  
500 505 510

Ser Ala Leu Thr Val Asp Glu Thr Tyr Val Pro Lys Glu Phe Lys Ala  
515 520 525

Glu Thr Phe Thr Phe His Ser Asp Ile Cys Thr Leu Pro Asp Lys Glu  
530 535 540

Lys Gln Ile Lys Lys Gln Thr Ala Leu Ala Glu Leu Val Lys His Lys  
545 550 555 560

Pro Lys Ala Thr Glu Asp Gln Leu Lys Thr Val Met Gly Asp Phe Ala  
565 570 575

Gln Phe Val Asp Lys Cys Cys Lys Ala Ala Asp Lys Asp Asn Cys Phe  
580 585 590

Ala Thr Glu Gly Pro Asn Leu Val Ala Arg Ser Lys Glu Ala Leu Ala  
595 600 605

<210> 11  
<211> 50  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> oligonucleotide-directed mutagenesis was used to prepare cDNAs encoding the H67A

mutated form of albumin. The mutagenic oglinucleotide, supplied by Delta Biotechnology Ltd.

in Nottingham, Massachusetts, that was used is listed below.

<400> 11  
gctgaaattg tgacaaatca cttgctaccc tttttggaga caaattatgc 50

<210> 12  
<211> 51  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> oligonucleotide-directed mutagenesis was used to prepare cDNAs encoding the H67A

mutated form of albumin. The mutagenic oglinucleotide, supplied by Delta Biotechnology Ltd.

Novel Albumins\_ST25.txt

in Nottingham, Massachusetts, that was used is listed below.

<400> 12

gcataatttg tctccaaaaa gggtagcaag tgatttgtca caattttcag c

51